

BIOCHEMICALS ORGANIC COMPOUNDS

1990

DIAGNOSTIC REAGENTS

TOLL FREE ORDERING

(Charges Reversed) from Anywhere in the World
7 A.M. to 7 P.M. Monday thru Friday
6 A.M. to 1 P.M. Saturday, Sunday, and Holidays

BEST AVAILABLE CO

TELEPHONE

USA / Canada.....1-800-325-3010
Outside USA / Canada.....
call COLLECT.....314-771-5750

FAX

USA / Canada.....1-800-325-5052
Outside USA / Canada.....314-771-5757
For collect FAX calls see page 3.

TWX or TELEX.....910-761-0593 or 434475

Answerback "SIG OK COLLECT."

Cable Address.....SIGMACHEM

Should you have any problem getting excellent service at the above numbers,
please call COLLECT (anytime Day or Night, including Weekends and Holidays)
314-531-9500.

CUSTOMER/TECHNICAL SERVICE

Customer Service/Technical Service telephone numbers located on card inside front cover
and on page 3.

SIGMA®

ALPHABETICAL
LIST

BIOACTIVE
PEPTIDES

IMMUNO-
CHEMICALS

MOLECULAR
BIOLOGY

TISSUE
CULTURE

OTHER
PRODUCT
GROUPS

EQUIPMENT
BOOKS AND
SUPPLIES

DIAGNOSTIC
KITS AND
REAGENTS

SIGMA[®]

BEST AVAILABLE COPY

ALPHABETICAL LIST OF COMPOUNDS

PRODUCT
NUMBER

OLEYL OLEATE

See: Oleic Acid Oleyl Ester Page 775

OLEYL PALMITATE

See: Palmitic Acid Oleyl Ester Page 785

OLEYL STEARATE

See: Stearic Acid Oleyl Ester Page 951

OLIGODEOXYADENYLIC ACID

(Oligo d(pA)_n, where n = 2 to 9)

Oligodeoxyadenylates are prepared by enzymatic degradation of poly(dA) and fractionation by ion-exchange chromatography. Each is about 25-35 A₂₆₀ units per mg solid. Usual purity 90% by HPLC, although a few items might be available only with lower purity which will be indicated on the label.

Unit Definition: One unit will yield an A₂₆₀ of 1.0 in 1.0 ml of 0.1 M NaCl, 0.02 M Tris-HCl, pH 7.0 (1 cm lightpath).

O 4128	d(pA) ₂ Ammonium Salt	5 units	17.55
		25 units	69.20
O 4253	d(pA) ₃ Ammonium Salt	5 units	21.25
		25 units	83.80
O 4378	d(pA) ₄ Ammonium Salt	5 units	23.65
		25 units	93.30
O 4503	d(pA) ₅ Ammonium Salt	5 units	26.10
		25 units	103.10
O 4628	d(pA) ₆ Ammonium Salt	5 units	26.70
		25 units	105.45
O 5753	d(pA) ₇ Ammonium Salt	5 units	29.00
		25 units	114.55
O 5878	d(pA) ₈ Ammonium Salt	5 units	30.10
		25 units	123.60
O 6003	d(pA) ₉ Ammonium Salt	5 units	35.20
		25 units	139.15

OLIGODEOXYCYTIDYLIC ACID

(Oligo d(pC)_n, where n = 3 to 36)

Oligodeoxycytidylates are prepared by enzymatic degradation of poly(dC) and fractionation by ion-exchange chromatography. Each is about 15-25 A₂₇₀ units per mg solid.

Unit Definition: One unit will yield an A₂₇₀ of 1.0 in 1.0 ml of 0.1 M NaCl, 0.02 M Tris HCl, pH 7.0 (1 cm light path).

O 8628	d(pC) ₃ Ammonium Salt	5 units	39.05
O 8753	d(pC) ₄ Ammonium Salt	5 units	31.00
O 8878	d(pC) ₅ Ammonium Salt	5 units	34.45
O 5253	d(pC) ₆ Ammonium Salt	5 units	39.30

(Continued)

PRODUCT
NUMBER

(Continuation of)

OLIGODEOXYCYTIDYLIC ACID

US \$

O 5378	d(pC) ₇ Ammonium Salt	5 units	41.35
O 5503	d(pC) ₈ Ammonium Salt	5 units	43.65
O 5628	d(pC) ₉ Ammonium Salt	5 units	49.90
O 6878	d(pC) ₁₀ Ammonium Salt	5 units	55.60
O 2004	d(pC) ₁₀₋₁₅ Ammonium Salt	5 units	51.60
O 9003	d(pC) ₁₁ Ammonium Salt	5 units	52.55
O 9128	d(pC) ₁₂ Ammonium Salt	5 units	56.80
O 9253	d(pC) ₁₃ Ammonium Salt	5 units	58.95
O 9378	d(pC) ₁₄ Ammonium Salt	5 units	61.65
O 9503	d(pC) ₁₅ Ammonium Salt	5 units	68.30
O 2129	d(pC) ₁₅₋₂₀ Ammonium Salt	5 units	55.10
O 9628	d(pC) ₁₆ Ammonium Salt	5 units	68.80
O 9753	d(pC) ₁₇ Ammonium Salt	5 units	71.10
O 9878	d(pC) ₁₈ Ammonium Salt	5 units	71.70
O 0629	d(pC) ₁₉ Ammonium Salt	5 units	72.80
O 0754	d(pC) ₂₀ Ammonium Salt	5 units	74.50
O 0879	d(pC) ₂₁ Ammonium Salt	5 units	76.80
O 1004	d(pC) ₂₂ Ammonium Salt	5 units	77.40
O 1129	d(pC) ₂₃ Ammonium Salt	5 units	78.00
O 1879	d(pC) ₂₄₋₃₆ Ammonium Salt	5 units	63.10

PRODUCT
NUMBER

OLIGODEOXY

O 4376

OLIGODEOXY

See: Olig

OLIGOMYC

O 4876

From St

diastato

A mixtur

A, B, and

Minimun

approx.

Composi

BEST AVAILABLE COPY

US \$

ACID

5 units 41.35

5 units 43.65

5 units 49.90

5 units 55.60

5 units 51.60

5 units 52.55

5 units 56.80

5 units 58.95

5 units 61.65

5 units 68.30

5 units 55.10

5 units 68.80

5 units 71.10

5 units 71.70

5 units 72.80

5 units 74.50

5 units 76.80

5 units 77.40

5 units 78.00

5 units 63.10

PRODUCT
NUMBER

OLIGODEOXYGUANYLIC ACIDS

O 4376

OLIGODEOXYTHYMIDYLIC ACID

See: Oligothymidyllic Acid Page 778

O 4876

OLIGOMYCIN

From Streptomyces 5 mg 19.75

diastatochromogenes 25 mg 77.85

A mixture of oligomycins 100 mg 238.95

A, B, and C. 250 mg 498.10

Minimum 90% total oligomycins by HPLC,

approx. 65% oligomycin A.

Composition given on label.

US \$
InquirePRODUCT
NUMBER

OLIGOMYCIN A

O 5001 Crystalline

1 mg 10.80

5 mg 34.15

25 mg 111.30

OLIGOMYCIN B

O 5126 Crystalline

1 mg 23.70

5 mg 77.40

25 mg 253.45

OLIGOMYCIN C

O 5251 Crystalline

1 mg 51.80

5 mg 170.80

25 mg 569.45

OLIGONUCLEOSIDES and OLIGONUCLEOTIDES

See category index in front and individual compounds in Main Alphabetical Listing.

Oligonucleotide Products

See Product Groups
following the main Alphabetical List
beginning on page 1628

BEST AVAILABLE COPY

For information on the use of this price list see page 7...

777

sted.

ALPHABETICAL LIST OF COMPOUNDS

PRODUCT
NUMBER

OLIGONUCLEOTIDE SYNTHESIS - A PRACTICAL APPROACH

See Equipment, Books and Supplies Section.

OLIGOSACCHARIDES

For a list of synthetic specialty oligosaccharides and derivatives, See: Bioactive Carbohydrates

OLIGOTHYMIDYLIC ACID

(d(pT)_n, where n = 2 to 24)
One mg of solid is equivalent to about 19-25 A₂₆₅ units. Oligomers d(pT)_n through d(pT)₂₄ have purities greater than 95% by HPLC. The higher polymers (n=10 through n=19-24) are greater than 90% by HPLC, unless otherwise indicated. The higher and lower homologs of each oligomer are found as impurities.

Unit Definition: One unit will yield an A₂₆₅ of 1.0 in 1.0 ml of 0.1 M NaCl, pH 7.0 (1 cm lightpath).

	d(pT) ₂	5 units	18.10
O 6002	Ammonium Salt	25 units	72.10
	d(pT) ₃	5 units	24.10
O 2503	Ammonium Salt	25 units	95.10
	d(pT) ₄	5 units	24.10
O 3003	Ammonium Salt	25 units	95.10
	d(pT) ₅	5 units	24.10
O 3128	Ammonium Salt	25 units	95.10
	d(pT) ₆	5 units	26.10
O 3253	Ammonium Salt	25 units	105.10
	d(pT) ₇	5 units	30.10
O 3378	Ammonium Salt	25 units	119.10
	d(pT) ₈	5 units	30.10
O 3503	Ammonium Salt	25 units	119.10
	d(pT) ₉	5 units	36.10
O 3628	Ammonium Salt	25 units	149.10
	d(pT) ₁₀	5 units	42.10
O 3753	Ammonium Salt	25 units	173.10
	d(pT) ₁₁	5 units	58.10
O 2380	Sodium Salt	25 units	231.10
	d(pT) ₁₂	5 units	59.10
O 8504	Sodium Salt	25 units	238.10
	d(pT) ₁₂₋₁₄	5 units	35.90
O 7129	Lithium Salt	25 units	149.10
	d(pT) ₁₄	5 units	75.50
O 8379	Sodium Salt	25 units	302.85
	Approx. 90%		
	d(pT) ₁₆	5 units	75.50
O 8254	Sodium Salt	25 units	302.85
	Approx. 90%		
	d(pT) ₁₈	5 units	75.50
O 8629	Sodium Salt	25 units	302.85
	Approx. 90%		
	d(pT) ₁₈₋₂₄	5 units	84.10
O 7754	Sodium Salt	25 units	338.30
	90-95%		

778

For shipping restrictions and cost of FOB items see page 5.

PRODUCT
NUMBER

OLIGO dT-CELLULOSE 50 mg 9.80
O 7751 Cellulose with a mixture of 100 mg 14.80
polythymidylic acid chains, up to 250 mg 28.95
18 nucleotides long, covalently 1 g 77.15
attached via the terminal 5 g 305.20
5'-phosphoryl end.
Prepared essentially by the method of Gilham, J. Am. Chem. Soc., 86, 4982 (1964).
One gram will bind 20-40 A₂₆₀ units of Poly A at 0°C, pH 7.5 in 0.5 M NaCl.
See also: Molecular Biology Reagents Page 1257

OLIVACINE

Inquire

O 6252
OLIVE OIL (pfs) 25 ml 4.90
O 1500 Highly refined; low acidity 100 ml 6.95
1 ml = approx. 0.91 g. 500 ml 11.40
Suitable for preparing a lipase substrate. Also see Sigma lipase substrate, an olive oil emulsion, for the determination of serum lipase.
See Diagnostic Kits and Reagents Section.

OLIVE OIL EMULSION

See: Sigma Lipase Substrate Page 936

OLIVETOL (pfs) 250 mg 6.05
O 8250 (3,5-Dihydroxypentylbenzene; 1 g 12.85
5-Pentylresorcinol) 5 g 49.10
Crystalline 10 g 82.90
Supplied only to established institutions. Telephone and telegraph orders not accepted.

OLIVOMYCIN (pfs) 1 mg 15.60
O 6126 From *Streptomyces olivoreticuli* 5 mg 61.50
Approx. 75% FOB Sigma

OMADINE

A proprietary name for 1-Hydroxypyridine-2-thione Page 597

OMEGA

See: Octanoyl-N-methylglucamide Page 1504

OMP

See: Orotidine 5'-Monophosphate Page 781

OPD

See: o-Phenylenediamine Page 808

OPHIOBOLIN A 1 mg 19.85
O 1380 (Cochliobolin A) 5 mg 77.60
From *Helminthosporium* 10 mg 139.50
sp.
Approx. 95% by HPLC
An inhibitor of Calmodulin
Ref.: 1. Leung, P.C., et al., J. Biol. Chem., 259, 2742 (1984).
2. Canonica, L., et al., Tet. Lett., 11, 1211 (1966).

OPIUM

See: Controlled Substances Page 1529

ORANGE II (pfs) 25 g 6.30
O 8126 (C.I. 15510; Acid Orange 7; 100 g 13.50
p-(2-Hydroxy-1-naphthylazo)-benzenesulfonic acid)
Sodium Salt
Dye content: Approx. 75%
See also: Biological Stains, Certified Page 1507

ORANGE IV 25 g 8.10
O 7629 (C.I. 13080; Acid Orange 5; 100 g 28.80
4-[p-Anilinophenylazo]benzene-sulfonic acid sodium salt; Tropaeolin OO)
See also: 4-(4-Anilinophenylazo)benzenesulfonic Acid Page 183

PRODUCT
NUMBER

ORANGE G (pfs)
O 1625 (C.I. 16230) 7-Hydroxy 1,3-naphthyl Sodium Salt
Dye content: See also: B

ORANGE PEI

O 4752

ORCEIN

(pfs)
O 7380 (Natural F Synthetic)
See also: I tified Pag

BEST AVAILABLE COPY